

- A data recording and reproducing apparatus comprising:
 - a disc recording and reproducing means;
 - a tage recording and reproducing means;
 - a data transfer means;
 - a first input/output means, and
 - a second input/output means,

said disc recording and reproducing means, said tape recording and reproducing means, said data transfer means, said first input/output means and said second input/output means being integrally assembled;

said disc recording and reproducing means recording audio-visual data, which comprises audio and visual data, audio data or visual data, transferred from said data transfer means in a disc recording medium to which random access is possible and reproduces said audio-visual data from said disc recording medium and outputs the same to said data transfer means;

said tape recording and reproducing means recording said audio-visual data transferred from said data transfer means in said tape recording medium and reproduces said

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audio visual data from said tape recording medium and outputs the same to said data transfer means;

said data transfer means transferring said audiovisual data among any of the elements selected from among
said disc recording and reproducing means, said tape
recording and reproducing means, said first input/output
means, and said second input/output means;

audio-visual signal from an outside apparatus, converting the same to audio-visual data of a digital format, and outputting the same to said data transfer means and converting said audio-visual data transferred from said data transfer means to an audio-visual signal of the analog format and outputs the same to an outside apparatus; and

visual data from a communication line connected to an outside apparatus and outputs the same to said data transfer means and outputs said audio-visual data transferred from said data transfer means to a communication line connected to an outside apparatus.

2. A data recording and reproducing apparatus as set forth in claim 1, wherein

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audio-visual data which was reproduced from said tape recording medium by said tape recording and reproducing means and transferred by said data transfer means and said audio-visual data which was received by said first input/output means and said second input/output means and transferred by said data transfer means in said disc recording medium and

said tape recording and reproducing means records said audio-visual data which was reproduced from said disc recording medium by said disc recording and reproducing means and said audio-visual data which was received by said first input/output means and said second input/output means and transferred by said data transfer means in said tape recording medium.

3. A data recording and reproducing apparatus as set forth in claim 1, wherein

said data transfer means has:

an input buffering means performing the buffering of said audio-visual data input from said disc recording and reproducing means;

an output buffering means performing the buffering

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of said audio-visual data which is transferred to said disc recording and reproducing means; and

a recording and reproduction control means

controlling each of the reproduction operation and recording

operation of said disc recording and reproducing means in

accordance with respective remaining recording capacities of

the input buffering means and said output buffering means.

4. A data recording and reproducing apparatus as set forth in claim 3, wherein

said recording and reproduction control means starts
the reproduction operation of said disc recording and
reproducing means where the remaining storage capacity of
the input buffering means becomes larger than a

predetermined value and stops the reproduction operation of
said disc recording and reproducing means where the
remaining storage capacity of said input buffering means
becomes a predetermined value or less.

5. A data recording and reproducing apparatus as set forth in claim 4, wherein

said tape recording means reproduces said audiovisual data at the data rate with which said data transfer
means receives said audio-visual data and records said

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transfer means transfers said audio-visual data.

6. A data recording and reproducing apparatus as set forth in claim 1, wherein said first input/output means has:

a digital/analog conversion means for converting said audio-visual data of a digital format from said data transfer means to an audio-visual signal of an analog format and outputting the same to an outside apparatus and

an analog/digital conversion means for converting an audio-visual signal of an analog format from an outside apparatus to audio-visual data of a digital format and outputting the same to said data transfer means.

7. A data redording and reproducing apparatus as set forth in claim 1, wherein said second input/output means has:

a data output means for converting audio-visual data of a parallel format from the data transfer means to audio-visual data of a serial format and outputting the same to a predetermined communication line of the outside apparatus

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a data reception means for receiving audio-visual
data of a serial format from a predetermined communication

line of an outside apparatus and converting the same to audio-visual data of a parallel format and outputting the same to said data transfer means.

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